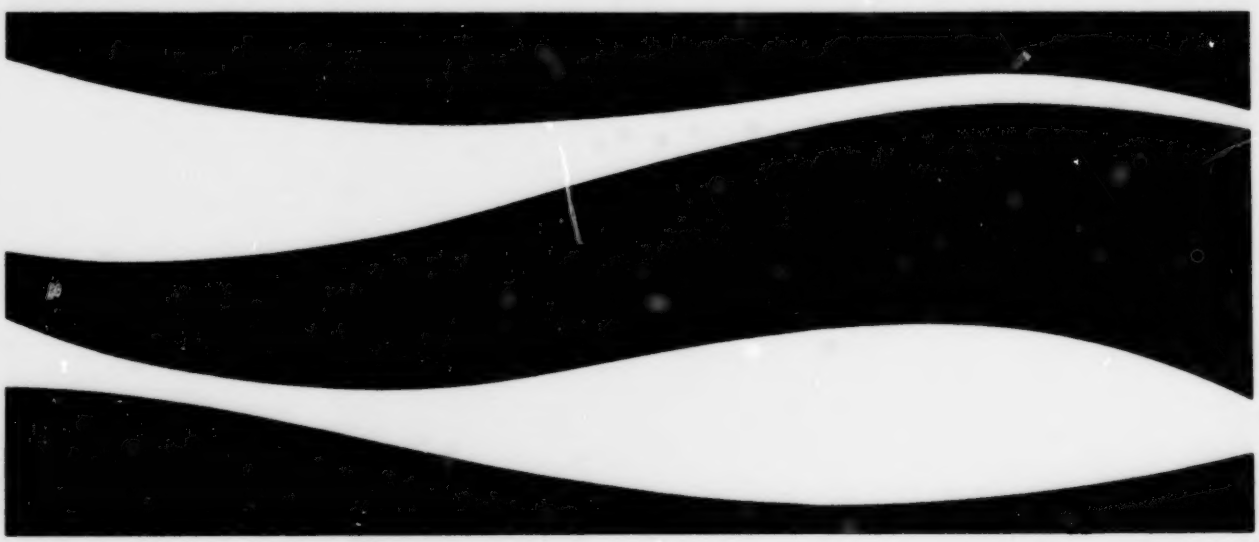
Fisheries Production Statistics Of British Columbia

1985

Province of British Columbia
Ministry of Environment and Parks
Fisheries Branch
Marine Resources Section



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FOREWORD

This is the fifth annual issue of the Fisheries Production Statistics of British Columbia to be published by the Province of British Columbia, Ministry of Environment and Parks. As a result of the creation of the Ministry of Agriculture and Fisheries in September of 1986, subsequent reports will be published by the Ministry of Agriculture and Fisheries. Prior to the 1981 edition, production statistics were published by the Department of Fisheries and Oceans, Canada dating back to 1951.

This report is a summary of fish production reported in the 1985 census of fish processing plants licenced in British Columbia. The format is similar to previous years in which the majority of the text and tables document data pertaining to fish landings and production. In addition, information relating to licencing within the fishing and fish processing sectors is also reported. Two new tables have been included this year. They document the quantity and value of hot and cold smoked salmon production in 1985 and the geographic distribution of various types of fish processing facilities in British Columbia. Also, a section summarizing industry average recovery rates based upon a 1984 survey of fish processing companies is included.

It should be noted that all data on fish landings is provided by the Department of Fisheries and Oceans. In 1985, landings data include direct vessel exports and landed value data include estimates of year end bonus payments to fishermen. Comparative data from 1984 only included bonuses while previous year's included neither. Data for 1985 is in preliminary form.

All quantity data are presented in tonnes, except where otherwise indicated, and values are shown in thousands of dollars. One tonne equals 2,204.6 pounds or 1,000 kilograms.

I would like to thank the many people in the industry and various agencies of both governments who contributed to this report. Special thanks to Ms. Selma Low for preparing the section on Recovery Rates and for her invaluable computer expertise. Thanks also to Mrs. Nellie Lee for her patient word processing.

This report was compiled under the direction of Mr. T.B. Proverbs, Head, Inspection, Policy and Statistics Unit.

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I. SUMMARY OF THE BRITISH COLUMBIA FISHING AND FISH PROCESSING INDUSTRIES - 1985

In 1985, the quantity of British Columbia fish landings increased by 26 percent from 165,848 tonnes recorded in 1984 to 209,634 tonnes in 1985[1]. The corresponding landed value rose by 55 percent from $242.9 million to $377.6. The increase in overall landings was primarily attributable to the increase in salmon landings, particularly sockeye, pink and chum. The higher landed value reflects not only the large salmon harvest, but also a significant increase in the price paid for roe herring. Total salmon landings more than doubled and the landed value increased by 70 percent. The combined herring fisheries experienced a decrease of 23 percent in landings as a result of greatly reduced quotas. The landed value however, was up by 42 percent. The halibut, domestic groundfish and shellfish fisheries showed modest increases in landings and landed values. Hake cooperative fishing arrangements with foreign nations showed a substantial reduction in landings in 1985.

The fish processing industry in British Columbia reported a record total wholesale value of $726 million, an increase of 55 percent from the previous year. Salmon recorded an 85 percent increase in wholesale value mainly due to the canned salmon pack which was the largest and the most valuable in recent history. Halibut and groundfish also showed substantial increases in wholesale value, up 36 and 22 percent respectively. The wholesale value of shellfish rose 7 percent and herring 4 percent.

From the perspective of the overall British Columbia economy, the commercial fishing industry contributed 1.4 percent to the Provincial gross domestic product. The wholesale value derived from B.C. fish products, however, accounted for nearly 30 percent of the total value of Canadian marine fish production.

The regional distribution of the wholesale value of fisheries products processed in British Columbia remained similar to previous years, except that the lower mainland accounted for a slightly larger than average percentage. Approximately 60 percent of the total value originated from the lower mainland of B.C.

A total of 15,567 personal commercial fishing licences were issued by the Department of Fisheries and Oceans in 1985, including 446 5 year licences and 15,121 traditional 1 year licences. This compares with the 1984 total of 14,647 licences, which consisted of 487 5 year licences and 14,160 1 year licences. Excluding packers, a total of 6,766 vessels were licenced to fish commercially in British Columbia.

One hundred and fifty-five firms utilizing 143 plants reported processed fish production in 1985. This figure includes 23 companies that leased facilities or had fish custom processed. In addition, production was reported by 22 fishing companies that exported fresh fish to the United States and 12 salmon mariculture operations. The Provincial Fisheries Branch issued 191 fish processing licences, 367 fish buying licences, 240 fisherman's vending licences, 197 oyster picking permits and 27 marine plant harvesting licences.

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[1] The 1984 landings data reported in last year's edition of this report has been revised.

TABLE 1 - QUANTITY AND VALUE OF B.C. FISH LANDINGS BY SPECIES - 1985

	LANDED QUANTITY (Tonnes)	LANDED VALUE ($'000)	WHOLESALE VALUE ($'000)
SALMON[1]	104,024	246,696	512,243
HERRING[2]	25,955	63,105	103,132
HALIBUT[3]	4,703	13,778	18,797
GROUNDFISH			
DOGFISH	2,679	715	1,809
FLOUNDER	66	30	73
HAKE[4]	19,308	2,993	3,085
LINGCOD[5]	5,688	3,437	8,853
PACIFIC COD	2,345	1,229	3,590
PACIFIC OCEAN PERCH	6,341	2,971	7,361
POLLOCK	1,689	358	2,023
ROCKFISH[6]	11,554	6,368	11,140
SABLEFISH[5]	4,263	12,082	14,889
SKATE	370	56	131
SOLE	2,782	1,686	5,189
TURBOT	765	164	1,526
OTHER GROUNDFISH	573[7]	135[7]	3,311[8]
SUB TOTAL	58,423	32,224	62,980
SHELLFISH			
ABALONE	42	442	480
CLAMS[9]	2,932	3,294	4,859
CRABS	1,165	4,719	5,942
GEODUCKS	5,167	4,605	4,743
OCTOPUS	34	82	121
OYSTERS	3,420	2,613	2,966
SHRIMP & PRAWNS	1,192	4,559	5,435
OTHER SHELLFISH	2,432[10]	1,220[10]	3,333[11]
SUB TOTAL	16,384	21,534	27,879
OTHER SPECIES			
STURGEON	8	16	19
TUNA[12]	57	149	408
OTHER	80[13]	144[13]	43[14]
SUBTOTAL	145	309	470
TOTAL	209,634	377,646	725,501

TABLE 1 - CONT'D - FOOTNOTES

1 Includes salmon roe. Wholesale value includes production derived fror U.S. salmon.
2 Includes herring spawn on kelp.
3 Includes landings at United States ports of 1,016 tonnes valued at $3,073,560.
4 Includes 13,306 tonnes of hake valued at $2,247,755 delivered to foreign vessels in co-operative fishing arrangements.
5 Reported in round weight.
6 Includes red, rock and bass, reedi, greenies, other rockfish, red snapper and silver perch.
7 Includes non-food fish, idiotfish and shark.
8 Includes other groundfish, portions, sticks and specialities, fish meal n.e.s, fish oil n.e.s., and solubles n.e.s.
9 Includes horse clams.
10 Includes scallops, sea urchins, squid, mussels, crayfish, snails, sea cucumbers and plankton.
11 Includes sea urchins, squid, scallops, mussels, sea cucumbers and other shellfish n.e.s.
12 Includes 56 tonnes worth $148,403 caught in U.S. waters and landed in Canada by Canadian fishermen.
13 Includes eulachons, wolf eels, shad, smelt, anchovies and other fish.
14 Includes eulachons, smelt and floating kelp.

TABLE 2 - LANDED AND WHOLESALE VALUE OF FISH AND FISH PRODUCTS IN B.C.

1974 - 1985

	Excludes halibut and tuna landed by B.C. fishermen at U.S. ports and hake sold to foreign processors		Includes halibut and tuna landed by B.C. fishermen at U.S. ports and hake sold to foreign processors			
YEAR	LANDED VALUE ($'000)	WHOLESALE VALUE ($'000)	LANDED VALUE ($'000)	% CHANGE	WHOLESALE VALUE ($'000)	% CHANGE
1974	100,282	219,758	100,976	- 23	220,452	- 23
1975	76,611	163,948	79,681	- 21	167,018	- 24
1976	138,820	294,590	141,851	+ 78	297,621	+ 78
1977	165,005	359,905	167,905	+ 18	362,556	+ 22
1978	243,731	510,667	250,805	+ 49	517,741	+ 43
1979	330,019	563,181	332,972	+ 33	566,134	+ 9
1980	180,529	402,191	184,108	- 45	405,770	- 28
1981	232,358	523,754	236,156	+ 28	526,928	+ 30
1982	235,519	461,159	241,205	+ 2	466,845	- 11
1983	203,094	465,090	209,772	- 13	471,768	+ 1
1984	236,028	460,036	242,930	+ 16	466,938	- 1
1985	372,324[1]	720,179	377,646	+ 55	725,501	+ 55

[1] Includes tuna caught by Canadian fishermen in U.S. waters and landed in Canada.

TABLE 3 - DISTRICT CATCH BY SPECIES - 1985 (LANDED WEIGHT IN TONNES)

Species	North[1] Coast	South Coast	Fraser Area	Total	Landed Value ($'000)
Chinook	2,168	2,458	212	4,838	25,564
Sockeye	9,198	18,557	3,307	31,062	120,428
Coho	2,766	5,127	77	7,970	26,555
Pink	15,837	19,642	1,068	36,547	38,979
Chum	8,776	14,360	261	23,397	34,755
Steelhead	173	24	3	200	389
Subtotal	38,918	60,168	4,928	104,014	246,670
Salmon Roe	7	2	1	10	26
TOTAL SALMON	38,925	60,170	4,929	104,024	246,696
Herring	18,562	7,205	-	25,767	57,406
Herring Spawn on Kelp	160	28	-	188	5,699
TOTAL HERRING	18,722	7,233	-	25,955	63,105
Halibut[2]	3,309	378	-	3,687	10,704
Dogfish	132	2,547	*	2,679	715
Flounder	49	16	1	66	30
Hake[3]	-	4,658	1,344	6,002	745
Ling Cod[4]	966	4,722	*	5,688	3,437
Pacific Cod	1,211	1,133	1	2,345	1,229
Pacific Ocean Perch	5,525	816	*	6,341	2,971
Pollock	1,154	533	2	1,689	358
Rockfish[5]	6,516	5,025	13	11,554	6,368
Sablefish[4]	2,420	1,843	-	4,263	12,082
Skate	293	77	*	370	56
Soles	2,037	742	3	2,782	1,686
Turbot	567	198	-	765	164
Other Groundfish[6]	425	148	*	573	135
Groundfish Subtotal	21,295	22,458	1,364	45,117	29,976
Abalone	32	10	-	42	442
Clams[7]	90	2,842	-	2,932	3,294
Crabs	274	538	353	1,165	4,719
Geoducks	1,366	3,801	-	5,167	4,605
Octopus	9	25	*	34	82
Oysters	-	3,420	-	3,420	2,613
Shrimp and Prawns	133	858	201	1,192	4,559
Scallops	*	37	*	37	95
Sea Cucumbers	-	344	2	346	94
Sea Urchins	-	1,769	47	1,816	764
Other Shellfish[8]	3	227	3	233	267
Shellfish Subtotal	1,907	13,871	606	16,384	21,534

TABLE 3 - CONT'D

Species	North Coast	South Coast	Fraser Area	Total	Landed Value ($'000)
Eulachons	-	-	29	29	40
Smelt	-	*	1	1	2
Sturgeon	*	1	7	8	16
Tuna[9]	-	1	-	1	1
Other[10]	-	50	*	50	102
Other Subtotal	*	52	37	89	161
TOTAL	84,158	104,162	6,936	195,256	372,176

1 Includes landings in the Taku/Stikine district.
2 Excludes 1,016 tonnes of halibut valued at $3,073,560 landed at U.S. ports.
3 Excludes 13,306 tonnes of hake valued at $2,247,755 delivered to foreign vessels in co-operative fishing arrangements. An additional 10,554 tonnes was caught by foreign vessels in Canadian waters.
4 Reported in round weight.
5 Includes red, rock and bass, reedi, greenies, other rockfish, red snapper and silver perch.
6 Includes non-food fish, idiotfish and shark.
7 Includes horse clams.
8 Includes mussels, snails, squid and plankton.
9 Does not include 56 tonnes worth $148,403 caught in U.S. waters and landed in Canada by Canadian fishermen.
10 Includes shad, wolf eels, anchovies and other fish.

* Less than 1 tonne reported.

TABLE 4 - REGIONAL WHOLESALE VALUE OF B.C. FISHERIES PRODUCTION BY PRODUCT CATEGORY 1984 - 1985[1]

($000)

PRODUCT CATEGORY	LOWER MAINLAND		VANCOUVER IS.		SUNSHINE COAST		CENTRAL & NORTH COAST		TOTAL B.C.	
	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985
Fresh	32,699	34,069	12,555	12,928	1,939	2,138	5,957	8,422	53,150	57,557
Frozen	89,783	137,543	39,571	52,067	525	403	53,391	67,267	183,270	257,280
Cured	79,755	92,981	7,757	7,957	134	11	27,590	31,341	115,236	132,290
Canned	56,852	166,278	1,166	4,781	-	-	36,482	87,862	94,500	258,921
Other	12,219	12,747	35	68	9	3	1,617	1,313	13,880	14,131
GRAND TOTAL	271,308	443,618	61,084	77,801	2,607	2,555	125,037	196,205	460,036	720,179

[1] Does not include hake over-the-side sales, and halibut and tuna landed in U.S. ports.

II. SUMMARY BY SPECIES

A) SALMON

Salmon landings increased by 117 percent in 1985, from 47,865 tonnes in 1984 to 104,024 tonnes. The landed value increased from $144.8 million to $246.7 million, a 70 percent rise. This was due primarily to tremendous landings of sockeye and pink and to some extent, chum. Sockeye and pink total landings exceeded the previous high tallies recorded in the past 12 years. While most species showed minor decreases in average landed prices, both sockeye and pink commanded higher prices than last year. In 1985, sockeye recorded the largest landed quantity, value, and average price in recent history--it accounted for 49 percent of the total salmon landed value.

Seine gear accounted for 54.6 percent of salmon landings, while troll gear was responsible for 22.0 percent and gillnet gear 23.4 percent. Seine gear harvested large quantities of pink, chum and sockeye salmon. Gillnet gear also landed a significant amount of sockeye and chum, along with the majority of steelhead. Troll gear accounted for the majority of chinook and coho landings, along with 20 percent of the pink catch.

As a result of the significant increase in landings, the wholesale value of salmon production rose dramatically to an all time record of $512.2 million. This represents an increase of 85 percent over the 1984 total of $276.2 million. The total wholesale values of sockeye, pink and chum increased substantially while chinook, coho and steelhead showed marginal decreases. Also contributing to the large wholesale value were slightly higher average market prices paid for canned and frozen dressed sockeye and frozen dressed chinook. Salmon production contributed 71 percent to the total wholesale value generated by the British Columbia fish processing industry in 1985, versus 60 percent in 1984.

Again in 1985, there was a shift in the mix of salmon products. Canned salmon accounted for 50 percent of the total salmon wholesale value, compared to 34 percent in 1984. Frozen salmon products contributed 40 percent to the 1985 salmon value, down from 53 percent last year. This shift is, as usual, due mainly to the changes in volumes and mix of salmon species harvested. In 1985 pink, sockeye and chum were at high points in their cycles and many were directed towards the canned market. However, substantial quantities of these were also directed towards the frozen dressed market along with the majority of the chinook production.

In total, the 1985 canned salmon pack consisted of 1,900,479 standard cases, the largest pack in recent history, exceeding the previous high in 1981 of 1,800,545 cases by almost 6 percent. Compared to 1984, the 1985 pack represented a 185 percent increase in volume and a 174 percent increase in wholesale value. In 1985, pink salmon accounted for 53 percent, sockeye 31, chum 14, coho 2, and others less

than one percent of the number of cases produced. In terms of wholesale value, however, sockeye contributed 45 percent to the total canned salmon value, while pink accounted for 43 percent, chum 9 percent and coho 2 percent. Overall, the total wholesale value for all canned salmon was 9 percent greater than the reported total net selling value.

Fresh dressed salmon production was nearly evenly divided between head-on and head-off products, while most frozen dressed salmon was marketed in a head-off form. Frozen dressed, head-off salmon accounted for 79 percent of the total dressed production, with the highest price received for frozen dressed, head-off red chinook.

In 1985, for the first time, information was gathered on the split between cold smoked and hot smoked salmon. Cold smoked salmon accounted for 91 percent of the wholesale value of smoked salmon production. The total wholesale value of these products was $11.5 million.

Salmonid mariculture production rose by 12 percent to 120 tonnes in 1985, compared to 107 tonnes in 1984. The wholesale value also increased, from $702 thousand to $820 thousand, a 17 percent increase. Salmonid mariculture production is expected to increase in 1986, as a significant number of new operations will be marketing fish for the first time. It should be noted that farmed salmon production is included in the British Columbia salmon totals.

Fresh, salted, smoked and other specialty products, as well as roe and salmon by-products were also processed. These different products accounted for approximately 7 percent of the total wholesale value of salmon production.

TABLE 5 - LANDINGS OF SALMON BY SPECIES AND GEAR 1974 - 1985

(Round Weight in Tonnes)

GILLNET GEAR

	CHINOOK (t)	SOCKEYE (t)	COHO (t)	PINK (t)	CHUM (t)	TOTAL[1] (t)	VALUE ($'000)	NUMBER OF DELIV. ('000)	AVERAGE CATCH PER DELIV. (kg)	AVERAGE VALUE PER DELIV. ($)
1974	982	11,026	1,689	2,685	7,943	24,367	26,672	89	274	300
1975	1,031	4,223	1,524	2,353	2,845	12,014	15,014	61	197	246
1976	1,027	7,655	1,177	3,013	4,841	17,746	25,825	78	228	331
1977	1,129	10,793	1,357	5,470	3,229	22,028	34,416	83	265	415
1978	997	7,819	1,281	2,319	6,641	19,102	38,687	69	277	561
1979	886	7,435	774	2,146	2,151	13,430	34,796	52	258	669
1980	670	3,265	848	1,711	7,548	14,084	31,042	51	276	609
1981	652	9,031	562	4,660	3,182	18,153	39,222	53	342	740
1982	917	9,817	870	526	5,525	17,742	41,387	51	348	811
1983	594	4,472	531	3,886	2,575	12,100	20,586	46	263	448
1984	763	6,542	518	1,826	2,988	12,761	35,674	51	250	699
1985	525	13,461	857	4,012	6,211	25,218	67,387	70	360	962

SEINE GEAR

	CHINOOK (t)	SOCKEYE (t)	COHO (t)	PINK (t)	CHUM (t)	TOTAL[1] (t)	VALUE ($'000)	NUMBER OF DELIV. ('000)	AVERAGE CATCH PER DELIV. (kg)	AVERAGE VALUE PER DELIV. ($)
1974	531	7,882	1,611	7,547	4,460	22,034	20,319	13	1,695	1,563
1975	558	1,152	1,901	6,026	2,483	12,128	11,934	10	1,213	1,193
1976	492	4,395	1,197	12,790	6,044	24,925	26,712	14	1,780	1,908
1977	926	6,237	1,981	12,814	2,696	24,661	29,697	16	1,541	1,856
1978	886	11,107	1,108	12,326	8,901	34,337	57,796	13	2,641	4,446
1979	903	5,861	1,539	13,983	2,425	24,717	42,522	12	2,060	3,544
1980	588	4,327	1,252	9,650	8,972	24,796	41,854	12	2,066	3,488
1981	774	11,636	1,430	24,297	2,847	40,994	63,864	10	4,099	6,386
1982	780	12,617	1,245	3,148	9,147	26,952	51,818	10	2,695	5,181
1983	496	9,006	1,354	30,207	2,150	43,225	48,443	11	3,930	4,404
1984	444	5,791	843	7,811	5,603	20,514	38,399	13	1,578	2,953
1985	733	14,735	1,410	25,996	15,769	58,676	106,902	14	4,190	7,635

TABLE 5 - CONT'D

	TROLL GEAR									
	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL[1]	VALUE	NUMBER OF DELIV.	AVERAGE CATCH PER DELIV.	AVERAGE VALUE PER DELIV.
	(t)	(t)	(t)	(t)	(t)	(t)	($'000)	('000)	(kg)	($)
1974	6,123	2,786	7,078	974	76	17,043	27,007	126	135	214
1975	5,701	305	4,312	1,861	60	12,241	19,965	121	102	165
1976	6,257	288	6,948	1,254	37	14,790	39,405	134	110	294
1977	5,467	358	6,519	6,439	107	18,893	44,612	146	129	303
1978	6,004	3,395	6,763	686	313	17,165	61,681	150	114	411
1979	5,056	1,236	8,029	8,567	175	23,067	83,215	163	142	511
1980	5,282	135	6,925	2,357	289	14,991	44,107	189	79	233
1981	4,490	333	5,522	9,296	128	19,774	54,984	164	121	335
1982	5,395	7,709	7,182	303	419	21,010	71,897	169	124	420
1983	4,288	848	8,576	5,445	148	19,334	42,056	170	114	247
1984	5,047	544	8,728	2,422	412	17,157	70,725	138	124	513
1985	4,211	3,373	6,710	7,692	1,666	23,669	72,381	124	191	584

[1] Totals include steelhead.

TABLE 6 - SHARE OF SALMON LANDINGS BY SPECIES AND GEAR - 1985[1]

(Round Weight in Tonnes)

SPECIES	Gillnet Tonnes	Share %	Seine Tonnes	Share %	Troll Tonnes	Share %	Total Tonnes
Chinook	525	9.6	733	13.4	4,211	77.0	5,469
Sockeye	13,461	42.6	14,735	46.7	3,373	10.7	31,569
Coho	857	9.6	1,410	15.7	6,710	74.7	8,977
Pink	4,012	10.6	25,996	69.0	7,692	20.4	37,700
Chum	6,211	26.3	15,769	66.7	1,666	7.0	23,646
Steelhead	152	75.2	33	16.3	17	8.5	202
TOTAL	25,218	23.4	58,676	54.6	23,669	22.0	107,563

TABLE 7 - LANDED AND WHOLESALE VALUE OF SALMON BY PRODUCT TYPE 1974 - 1985

($'000)

	LANDED VALUE	CANNED	FRESH	FROZEN	ROE	OTHER	TOTAL WHOLESALE VALUE
1974	73,998	114,312	5,868	30,216	11,890	3,555	165,841
1975	46,913	43,252	9,153	36,781	6,410	4,152	99,748
1976	91,942	91,733	11,018	60,959	16,056	7,278	187,045
1977	109,176[1]	122,987	10,059	76,049	12,618	6,079	227,792
1978	158,686[1]	115,913	14,584	134,416	24,202	14,904	304,019
1979	161,113[1]	115,927	8,127	143,093	11,393	11,087	289,627
1980	117,149[1]	146,828	10,429	109,300	13,209	9,341	289,107
1981	158,226[1]	237,391	6,744	108,047	12,802	8,694	373,678
1982	165,207[1]	127,126	10,633	155,762	9,829	11,988	315,338
1983	111,097[1]	176,191	13,414	80,873	3,186	10,625	284,289
1984	144,814[1]	94,457	15,432	145,679	5,065	15,608	276,241
1985	246,696[1]	258,646	14,137	206,647	12,019	20,794	512,243

[1] Includes salmon roe.

TABLE 8 - LANDED AND WHOLESALE VALUE OF SALMON BY SPECIES 1974 - 1985

	Quantity Landed in Tonnes (Round Weight)	Landed Value ($'000)	Average Landed Price ($/kg)	Wholesale Value ($'000)[1]	Landed Value as a Percent of Wholesale Value (%)
CHINOOK					
1974	7,637	13,803	1.81	18,864	73.2
1975	7,289	12,172	1.67	20,270	60.0
1976	7,776	22,919	2.95	29,314	78.2
1977	7,522	23,589	3.14	36,832	64.0
1978	7,887	29,461	3.74	35,897	82.1
1979	6,845	31,159	4.55	40,475	77.0
1980	6,540	24,307	3.72	38,421	63.3
1981	5,916	25,731	4.35	38,051	67.6
1982	7,092	31,205	4.40	41,490	75.2
1983	5,378	17,614	3.28	29,489	59.7
1984	6,254	37,318	5.97	45,861	81.4
1985	5,469	25,564	4.67	41,433	61.7
SOCKEYE					
1974	21,694	29,841	1.38	65,221	45.8
1975	5,681	8,184	1.44	19,538	41.9
1976	12,339	20,656	1.67	45,701	45.2
1977	17,388	32,218	1.85	65,497	49.2
1978	22,321	55,181	2.47	107,817	51.2
1979	14,532	43,307	2.98	81,008	53.5
1980	7,727	18,222	2.36	47,416	38.4
1981	21,000	54,577	2.60	122,073	44.7
1982	30,143	78,860	2.62	155,363	50.8
1983	14,326	36,617	2.56	83,988	43.6
1984	12,877	45,976	3.57	84,191	54.6
1985	31,569	120,428	3.81	206,338	58.4
COHO					
1974	10,378	13,834	1.33	24,375	56.8
1975	7,737	12,401	1.60	19,783	62.7
1976	9,322	21,331	2.29	29,906	71.3
1977	9,857	22,671	2.30	35,396	64.0
1978	9,152	27,269	2.98	41,023	66.5
1979	10,342	44,063	4.26	57,203	77.0
1980	9,025	23,078	2.56	43,568	53.0
1981	7,514	22,009	2.93	37,984	57.9
1982	9,297	26,144	2.81	42,582	61.4
1983	10,461	22,504	2.15	39,306	57.3
1984	10,089	35,532	3.52	59,624	59.6
1985	8,977	26,555	2.96	48,362	54.9

TABLE 8 - CONT'D

	Quantity Landed in Tonnes (Round Weight)	Landed Value ($'000)	Average Landed Price ($/kg)	Wholesale Value ($'000)[1]	Landed Value as a Percent of Wholesale Value (%)
PINK					
1974	11,207	5,791	0.52	22,215	26.1
1975	10,239	6,900	0.67	21,040	32.8
1976	17,056	12,124	0.71	37,085	32.7
1977	24,723	22,262	0.90	54,767	40.6
1978	15,331	12,835	0.84	37,852	33.9
1979	24,696	29,685	1.20	76,867	38.6
1980	13,718	15,118	1.10	50,425	30.0
1981	38,253	45,822	1.20	117,302	39.1
1982	3,977	3,195	0.80	13,675	23.4
1983	39,538	26,651	0.67	103,767	25.7
1984	12,059	10,742	0.89	38,195	28.1
1985	37,700	38,979	1.03	115,160	33.8
CHUM					
1974	12,479	10,680	0.86	22,350	47.8
1975	5,389	7,206	1.34	11,588	62.2
1976	10,922	14,835	1.36	27,075	54.8
1977	6,032	7,905	1.31	16,623	47.6
1978	15,855	33,336	2.10	50,878	65.5
1979	4,751	12,243	2.58	21,262	57.6
1980	16,809	36,197	2.15	63,960	56.6
1981	6,157	9,781	1.59	21,653	45.2
1982	15,091	25,528	1.69	42,768	59.7
1983	4,899	7,605	1.55	14,735	51.6
1984	9,003	14,938	1.66	34,835	42.9
1985	23,646	34,755	1.47	75,907	45.8
STEELHEAD					
1974	49	49	1.00	101	48.5
1975	49	50	1.02	110	45.5
1976	47	77	1.64	139	55.4
1977	59	80	1.36	223	35.9
1978	57	82	1.44	258	31.8
1979	48	96	2.00	250	38.4
1980	52	81	1.56	247	32.8
1981	81	147	1.81	387	38.0
1982	104	170	1.63	520	32.7
1983	57	94	1.65	308	30.5
1984	150	292	1.95	1,032	28.3
1985	202	389	1.92	857	45.4

[1] Revised. Does not include the wholesale value derived from salmon caught in U.S. waters and canned in British Columbia. This data has been adjusted from previous reports.

TABLE 9 - WHOLESALE VALUE OF SALMON BY SPECIES 1974 - 1985

($'000)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEEL-HEAD	NOT CLASSIFIED	TOTAL WHOLESALE VALUE
1974	18,864	65,221	24,375	22,215	22,350	101	12,715	165,841
1975	20,270	19,538	19,783	21,040	11,588	110	7,419	99,748
1976	29,314	45,701	29,906	37,085	27,075	139	17,825	187,045
1977	36,832	65,579	35,431	59,217	16,676	223	13,834	227,792
1978	35,897	107,817	41,023	39,544	50,878	258	28,602	304,019
1979	40,475	81,008	57,203	76,867	21,262	250	12,562	289,627
1980	38,427	68,224	43,645	58,655	64,608	248	15,300	289,107
1981	38,073	131,030	38,433	128,553	22,271	387	14,931	373,678
1982	41,495	158,492	42,595	17,813	42,887	520	11,536	315,338
1983	29,490	84,996	39,384	109,732	14,777	308	5,602	284,289
1984	45,863	86,165	59,772	44,761	35,815	1,032	2,833	276,241
1985	41,435	206,810	48,762	135,376	76,705	857	2,298	512,243

TABLE 10 - PRODUCTION AND UTILIZATION OF SALMON BY SPECIES 1984 - 1985

	UNIT	1984 QUANTITY	1984 VALUE[1] ($'000)	1984 AVERAGE[2] PRICE ($)	1985 QUANTITY	1985 VALUE[1] ($'000)	1985 AVERAGE[2] PRICE ($)
CHINOOK							
Canned	48-lb. cases	2,709	281	103.57	4,769	505	105.87
Fresh Round	000 kg	17	135	8.15	2	9	4.08
Fresh Dressed	000 kg	653	5,247	8.03	363	2,866	7.89
Frozen Round	000 kg	*	*	-	-	-	-
Frozen Dressed	000 kg	3,985	37,121	9.31	3,513	34,372	9.78
Frozen Steaks	000 kg	6	81	12.79	18	168	9.12
Salted	000 kg	*	*	-	34	438	12.87
Smoked	000 kg	225	2,750	12.21	207	2,955	14.28
Roe	000 kg	15	79	5.33	19	112	6.00
Other	000 kg	-	169	-	-	10	-
TOTAL		-	45,863	-	-	41,435	-
SOCKEYE							
Canned	48-lb. cases	230,798	45,898	198.87	583,579	117,658	201.61
Fresh Round	000 kg	26	114	4.39	29	123	4.27
Fresh Dressed	000 kg	705	4,284	6.08	718	4,931	6.87
Frozen Round	000 kg	-	-	-	-	-	-
Frozen Dressed	000 kg	3,574	25,690	7.19	9,241	69,504	7.52
Frozen Steaks	000 kg	53	563	10.58	58	628	10.76
Salted	000 kg	405	3,448	8.52	703	5,792	8.24
Smoked	000 kg	339	5,630	16.59	381	6,741	17.72
Roe	000 kg	110	501	4.57	314	1,433	4.56
Other	000 kg	-	37	-	-	-	-
TOTAL		-	86,165	-	-	206,810	-
COHO							
Canned	48-lb. cases	25,832	3,791	146.77	39,559	5,941	150.18
Fresh Round	000 kg	-[3]	1	2.78	2	10	4.17
Fresh Dressed	000 kg	578	3,605	6.24	513	2,969	5.79
Frozen Round	000 kg	*	*	-	-	-	-
Frozen Dressed	000 kg	7,219	51,403	7.12	5,627	38,508	6.84
Frozen Steaks	000 kg	24	197	8.25	26	258	9.77
Salted	000 kg	36	350	9.78	38	334	8.86
Smoked	000 kg	24	287	12.05	30	385	13.02
Roe	000 kg	21	138	6.45	51	342	6.67
Other	000 kg	-	-	-	-	15	-
TOTAL		-	59,772	-	-	48,762	-

TABLE 10 - CONT'D

	UNIT	1984 QUANTITY	1984 VALUE[1] ($'000)	1984 AVERAGE[2] PRICE ($)	1985 QUANTITY	1985 VALUE[1] ($'000)	1985 AVERAGE[2] PRICE ($)
PINK							
Canned	48-lb. cases	338,474	38,028	112.35	1,002,477	111,657	111.38
Fresh Round	000 kg	*	*	-	6	9	1.51
Fresh Dressed	000 kg	166	398	2.40	803	2,196	2.73
Frozen Round	000 kg	*	*	-	-	-	-
Frozen Dressed	000 kg	1,746	5,589	3.20	6,147	19,095	3.11
Frozen Steaks	000 kg	15	60	3.94	34	124	3.65
Salted	000 kg	*	*	-	-	-	-
Smoked	000 kg	11	99	9.32	36	382	10.61
Roe	000 kg	175	587	3.36	552	1,897	3.43
Other	000 kg	-	-	-	-	16	-
TOTAL		-	44,761	-	-	135,376	-
CHUM							
Canned	48-lb. cases	68,579	6,434	93.82	269,070	22,788	84.69
Fresh Round	000 kg	288	520	1.80	61	120	1.97
Fresh Dressed	000 kg	255	1,010	3.96	273	856	3.14
Frozen Dressed	000 kg	5,523	23,734	4.30	10,816	42,549	3.93
Frozen Steaks	000 kg	64	371	5.82	124	748	6.04
Salted	000 kg	*	*	-	*	*	-
Smoked	000 kg	82	629	7.72	91	1,065	11.71
Roe	000 kg	484	3,117	6.44	1,166	8,235	7.06
Other	000 kg	*	*	-	-	344	-
TOTAL		-	35,815	-	-	76,705	-
STEELHEAD							
Canned	48-lb. cases	276	25	89.46	1,025	97	94.39
Fresh Round	000 kg	-[3]	1	4.28	1	2	3.82
Fresh Dressed	000 kg	19	112	5.87	9	46	5.17
Frozen Round	000 kg	*	*	-	-	-	-
Frozen Dressed	000 kg	149	868	5.81	137	693	5.06
Frozen Steaks	000 kg	*	*	-	*	*	-
Smoked	000 kg	2	26	12.45	2	19	11.93
Other	000 kg	-	-	-	-	-	-
TOTAL		-	1,032	-	-	857	-

TABLE 10 - CONT'D

	UNIT	1984 QUANTITY	1984 VALUE[1] ($'000)	1984 AVERAGE[2] PRICE ($)	1985 QUANTITY	1985 VALUE[1] ($'000)	1985 AVERAGE[2] PRICE ($)
ALL SALMON[4]							
Canned	48-lb. cases	666,668	94,457	141.69	1,900,479	258,646	136.10
Fresh Round	000 kg	335	776	2.32	101	273	2.70
Fresh Dressed	000 kg	2,376	14,656	6.17	2,679	13,864	5.18
Frozen Round	000 kg	-[3]	2	4.52	-	-	-
Frozen Dressed	000 kg	22,196	144,405	6.51	35,481	204,721	5.77
Frozen Steaks	000 kg	162	1,272	7.85	260	1,926	7.41
Salted	000 kg	497	4,602	9.26	790	6,625	8.39
Smoked	000 kg	683	9,421	13.79	747	11,547	15.46
Salmon Roe[5]	000 kg	940	5,065	5.39	2,102	12,019	5.72
Other Specialty Products		-	211	-	-	385	-
Other[6]		-	1,374	-	-	2,237	-
TOTAL		-	276,241	-	-	512,243	-

1 Note: Any discrepancies in VALUE($'000) figures are due to rounding.
2 Average Price:
Canned Salmon $'s per 48-lb. case.
Other Salmon Products $'s per kg.
Value divided by quantity may not equal average price due to rounding.
3 Less than 500 kg. and $500.
4 Note: The total value of "ALL SALMON" includes values for products including offal, oil, meal, etc. which could not be allocated to particular species. Also included are the value of items where less than three companies are reported. In a number of cases, however, confidential data is included if the total processed product represented by the confidential data is accounted for by three or more companies.
5 Includes roe not broken down by species.
6 Includes offal, offal meal, oil, heads, bait, milts, other products and the value of items where less than three companies reported.

* Confidential. Less than three companies reporting.

TABLE 11 - B.C. CANNED SALMON PRODUCTION BY REGION - 1985[1]

(48 lb. Cases)

AREA	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD	TOTAL
North Coast	1,825	133,362	15,027	445,173	79,166	536	675,089
Fraser Area & South Coast	2,944	450,217	24,532	557,304	189,904	489	1,225,390
TOTAL	4,769	583,579	39,559	1,002,477	269,070	1,025	1,900,479

[1] Does not include imported salmon custom canned in B.C. for U.S. companies.

TABLE 12 - COMPARISON OF THE 1985 SALMON PACK TO THE 12 YEAR AVERAGE PACK

1974 - 1985

	1974 - 1985 Average (48 lb. cases)	1985 (48 lb. cases)	Difference (%)
Sockeye	437,604	583,579	+33
Coho	65,411	39,559	-40
Pink	559,520	1,002,477	+79
Chum	107,783	269,070	+150
Other	11,569	5,794	-50
TOTAL	1,181,887	1,900,479	+61

TABLE 13 - BRITISH COLUMBIA CANNED SALMON PRODUCTION : QUANTITY AND VALUE BY SPECIES - 1985[1]

SPECIES	QUANTITY (48 lb. Cases)	WHOLESALE VALUE ($'000)	AVG. PRICE $/48 lb. Case[2]	NET SELLING VALUE ($'000)	AVG. PRICE $/48 lb. Case[2]
Red Chinook	1,981	245	123.86	231	116.55
Pink Chinook	2,256	215	95.26	201	88.89
White Chinook	532	45	85.37	44	81.95
Sockeye	583,579	117,658	201.61	110,301	189.01
Coho	39,559	5,941	150.18	5,700	144.09
Pink	1,002,477	111,657	111.38	99,829	99.58
Chum	269,070	22,788	84.69	20,780	77.23
Steelhead	1,025	97	94.39	93	91.11
TOTAL	1,900,479	258,646	-	237,179	-

1 Fish processors were requested to report both a final wholesale value and a net selling value for their canned salmon production. The final wholesale value represents gross sales based upon company invoices. The net selling value refers to the final selling price after promotions, case allowances, cash discounts and other trade discounts which may apply.

2 Value divided by quantity may not equal average price due to rounding.

TABLE 14 - BRITISH COLUMBIA CANNED SALMON PACK BY YEAR 1974 - 1985

(48 lb. Cases)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD	TOTAL
1974	20,279	709,180	160,051	307,192	230,634	1,546	1,428,882
1975	13,952	164,055	61,081	240,592	37,093	597	517,370
1976	11,173	376,047	69,850	483,054	85,540	166	1,025,830
1977	29,569	494,172	74,180	686,911	61,309	826	1,346,967
1978	8,916	485,748	53,960	456,058	121,487	707	1,126,876
1979	12,953	295,858	43,061	569,337	33,689	327	955,225
1980	7,599	368,844	88,217	472,462	176,884	420	1,114,426
1981	7,839	622,490	61,333	1,020,545	87,866	472	1,800,545
1982	7,661	548,998	47,246	140,415	74,127	384	818,831
1983	4,306	371,483	60,560	996,727	47,120	331	1,480,527
1984	2,709	230,798	25,832	338,474	68,579	276	666,668
1985	4,769	583,579	39,559	1,002,477	269,070	1,025	1,900,479

TABLE 15 - AVERAGE WHOLESALE PRICE OF BRITISH COLUMBIA CANNED SALMON BY YEAR 1974 - 1985

($/48 lb. Case)

YEAR	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1974	63.79	90.26	80.99	70.70	61.69	65.36
1975	60.62	107.05	87.44	70.89	65.04	61.12
1976	63.66	115.00	95.80	73.18	66.89	65.01
1977	87.86	113.61	104.00	75.82	71.49	81.11
1978	73.01	128.69	105.43	82.89	75.81	70.19
1979	82.25	159.06	132.16	103.53	90.12	93.49
1980	93.25	168.87	134.60	114.41	100.98	98.73
1981	105.01	175.17	145.55	107.87	96.34	104.22
1982	114.61	177.12	145.87	115.96	78.11	111.98
1983	103.02	178.46	136.61	97.04	93.83	112.52
1984	103.57	198.87	146.77	112.35	93.82	89.46
1985	105.87	201.61	150.18	111.38	84.69	94.39

TABLE 16 - QUANTITY AND WHOLESALE VALUE OF BRITISH COLUMBIA DRESSED SALMON PRODUCTION BY SPECIES - 1985[1]

	FRESH DRESSED						FROZEN DRESSED						TOTAL		
	Head-On			Head-Off			Head-On			Head-Off			Fresh/Frozen Dressed		
SPECIES	000 kg	$000	$/kg	000 kg	$000	$/kg	000 kg	$000	$/kg	000 kg	$000	$/kg	000 kg	$000	$/kg
Red Chinook	224	1,832	8.18	108	883	8.17	97	808	8.32	2,954	30,463	10.31	3,383	33,986	10.05
Pink Chinook	5	26	5.89	7	26	3.93	*	*	6.66	123	778	6.30	135	830	6.15
White Chinook	15	73	4.97	5	25	4.62	7	32	4.89	332	2,288	6.90	359	2,418	6.74
Sockeye	391	2,514	6.43	327	2,417	7.39	3,263	24,057	7.37	5,978	45,447	7.60	9,959	74,435	7.47
Coho	301	1,751	5.81	212	1,218	5.76	641	4,082	6.37	4,986	34,426	6.90	6,140	41,477	6.76
Pink	336	882	2.63	467	1,314	2.81	962	2,976	3.10	5,186	16,119	3.11	6,951	21,291	3.06
Silver Brite Chum	26	114	4.36	70	265	3.78	188	822	4.37	3,560	17,151	4.82	3,844	18,352	4.77
Semi Brite Chum	17	43	2.53	72	270	3.77	20	76	3.86	4,175	17,969	4.30	4,284	18,358	4.29
Dark Chum	*	*	2.45	88	163	1.86	*	*	3.37	2,859	6,521	2.27	2,957	6,684	2.26
Steelhead	7	39	5.49	2	6	3.80	108	592	5.49	29	101	3.45	146	738	5.05
TOTAL[2]	1,322	7,274	-	1,358	6,587	-	5,286	33,445	-	30,192	171,263	-	38,158	218,569	5.73

1 Includes farm raised salmon.
2 Does not include products that were reported by less than three companies.
* Confidential. Fewer than three companies reporting.

Note: Value divided by quantity may not equal average price due to rounding.

TABLE 17 - FROZEN DRESSED SALMON PRODUCTION IN B.C. BY YEAR 1974-1985[1]

(Tonnes)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1974	3,988	301	3,262	218	2,870	-
1975	3,694	225	3,306	1,224	2,526	17
1976	4,008	469	4,569	529	5,445	33
1977	4,318	1,786	5,153	2,469	2,824	31
1978	4,478	5,224	4,974	406	8,370	41
1979	4,247	4,650	6,827	4,884	3,268	36
1980	3,745	817	4,388	1,299	8,572	33
1981	3,738	2,962	4,196	5,686	2,824	56
1982	4,013	9,757	5,425	413	8,643	86
1983	2,737	2,133	5,722	4,277	2,217	53
1984	3,985	3,574	7,219	1,746	5,523	149
1985	3,513	9,241	5,627	6,147	10,816	137

TABLE 18 - AVERAGE WHOLESALE PRICE OF FROZEN DRESSED SALMON BY YEAR 1974-1985[1]

($/kg)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1974	3.16	2.79	2.77	1.99	2.14	-
1975	3.48	3.48	3.35	2.60	2.91	3.53
1976	4.96	3.64	4.20	2.71	3.38	3.22
1977	5.97	4.41	4.82	2.62	3.67	3.58
1978	6.06	6.50	6.48	3.51	4.53	4.74
1979	7.42	6.06	7.05	3.44	5.14	5.64
1980	7.61	5.71	6.15	3.44	5.07	5.71
1981	8.30	6.22	6.41	3.15	4.43	5.76
1982	8.33	5.36	6.17	3.15	3.97	4.89
1983	7.51	5.24	4.91	2.58	3.87	5.00
1984	9.31	7.19	7.12	3.20	4.30	5.81
1985	9.78	7.52	6.84	3.11	3.93	5.06

[1] Includes both head-on and head-off products. See Table 16 for 1985 average prices of head-on and head-off products.

TABLE 19 - FRESH DRESSED SALMON PRODUCTION IN B.C. BY YEAR 1974-1985[1]

(Tonnes)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1974	806	70	674	30	565	-
1975	985	138	829	305	217	4
1976	1,212	136	896	87	371	6
1977	752	187	444	244	404	6
1978	535	486	307	35	239	1
1979	530	130	370	363	31	1
1980	865	113	744	44	90	3
1981	485	128	357	144	71	2
1982	604	499	360	43	483	3
1983	853	602	557	685	260	1
1984	653	705	578	166	255	19
1985	363	718	513	803	273	9

TABLE 20 - AVERAGE WHOLESALE PRICE OF FRESH DRESSED SALMON BY YEAR 1974-1985[1]

($/kg)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1974	2.90	3.12	2.70	1.66	2.00	-
1975	3.42	3.06	3.25	2.30	3.21	2.99
1976	4.36	3.09	3.98	2.57	3.47	3.60
1977	4.39	3.03	3.73	2.13	1.84	4.05
1978	5.31	5.86	5.23	2.34	4.54	3.73
1979	6.50	5.72	6.17	1.81	5.07	4.41
1980	5.43	4.62	5.14	2.93	3.35	4.23
1981	6.46	5.76	5.68	2.62	3.41	4.49
1982	6.92	4.99	4.78	2.73	3.62	3.97
1983	6.29	4.75	4.49	2.30	3.06	4.62
1984	8.03	6.08	6.24	2.40	3.96	5.87
1985	7.89	6.87	5.79	2.73	3.14	5.17

[1] Includes both head-on and head-off products. See Table 16 for 1985 average prices of head-on and head-off products.

TABLE 21 - QUANTITY AND WHOLESALE VALUE OF BRITISH COLUMBIA HOT AND COLD SMOKED SALMON - 1985

	HOT SMOKED			COLD SMOKED			TOTAL		
SPECIES	Tonnes	$'000	Avg.$/kg	Tonnes	$'000	Avg.$/kg	Tonnes	$'000	Avg.$/kg
Chinook	79	746	9.48	128	2,209	17.17	207	2,955	14.28
Sockeye	2	19	11.31	379	6,722	17.71	381	6,741	17.69
Coho	1	12	13.39	29	373	12.99	30	385	12.83
Pink	5	51	9.21	31	332	9.90	36	383	10.64
Chum	14	166	12.20	77	898	11.59	91	1,064	11.69
Steelhead	*	*	9.05	*	*	12.87	2	19	9.50
TOTAL	101	994	-	644	10,534	-	747	11,547	-

* Confidential. Fewer than three companies reporting.

Note: Value divided by quantity may not equal average price due to rounding. Product totals do not include confidential data.

B. HERRING

In 1985, total herring landings declined by 23 percent from 33,875 tonnes to 25,955 tonnes. The total landed value, however, increased by 42 percent over the same period, from $44.4 million to $63.1 million. Overall, higher prices were paid for herring in 1985, compared to recent years.

Specifically, roe herring landings dropped from 32,795 tonnes in 1984 to 24,588 tonnes, a decrease of 25 percent. This decrease was due to a closure on the West Coast of Vancouver Island in an effort to conserve dwindling stocks. The landed value increased by 42 percent from $43.6 million to $62.1 million. Food and bait herring landings showed a modest increase in 1985, from 1,080 to 1,367 tonnes. Similarly, the landed value also rose from $720 thousand to $1.1 million, an increase of 53 percent.

The total wholesale value of herring production in 1985 was $103.1 million, an increase of 4 percent compared to $99 million in 1984. The wholesale value of herring roe production was $100.1 million, also up by 4 percent from 1984. The average price continued its climb from $18.71/kg to $25.51/kg, an increase of 36 percent. Combined roe herring production, including herring meal, oil and spawn on kelp, accounted for 97 percent of the total wholesale value of herring production for the second consecutive year. The wholesale value of herring frozen for food was $68 thousand while bait was valued at $2.0 million. Frozen food and bait herring in 1985 accounted for only 2 percent of the total wholesale value of herring, as it has for the past three years. The value of other herring products, including kippered snacks, dry-salted, pickled and fillets, totalled $910 thousand or 1 percent of the total.

TABLE 22 - ROE HERRING LANDINGS AND WHOLESALE VALUE OF ROE HERRING PRODUCTS

1974 - 1985

	LANDINGS[1] (Tonnes)	LANDED VALUE[1] ($'000)	WHOLESALE VALUE ROE ($'000)	SPAWN ON KELP ($'000)	FROZEN FOR ROE ($'000)	TOTAL WHOLESALE VALUE[4] ($'000)
1974	43,505	11,876	24,699	-	1,802	28,858
1975	53,293	13,812	24,081[2]	100	5,836	31,405
1976	78,832	23,333	52,196[2]	597	6,444	61,848
1977	73,485	29,542	73,292	1,407	1,405	79,799
1978	63,408	52,933	130,743	2,521	3,979	141,508
1979	37,480	126,866	182,304	5,011	5,163	195,387
1980	16,414	26,357	33,074	2,448	1,058	38,297
1981	29,486	35,928	69,946	3,308	-[3]	74,198
1982	27,658	35,479	76,963	3,900	-	83,057
1983	39,155	52,902	98,094	6,455	-	107,946
1984	32,795	43,645	88,090	4,508	-[3]	96,058
1985	24,588	62,050	91,792	5,699	-	100,115

1 Includes spawn on kelp (1975 - 1985).
2 Includes spawn off nets.
3 Confidential - less than three companies reporting. Included in the total wholesale value.
4 Includes roe herring by-products.

TABLE 23 - FOOD AND BAIT HERRING LANDINGS AND WHOLESALE VALUE OF FOOD AND BAIT HERRING PRODUCTS 1974 - 1985

	LANDINGS (t)	LANDED VALUE ($'000)	WHOLESALE VALUE FROZEN FOR FOOD ($'000)	BAIT ($'000)	TOTAL WHOLESALE VALUE[1] ($'000)
1974	1,165	167	236	293	998
1975	6,361	772	674	611	3,528
1976	2,329	542	2,207	172	3,698
1977	23,805	4,156	8,353	449	10,265
1978	18,145	4,194	9,484	1,420	13,523
1979	6,181	2,131	3,204	2,133	6,546
1980	8,909	2,891	7,207	1,597	9,919
1981	8,663	2,177	5,516	1,480	8,253
1982	1,117	450	1,010	1,463	3,391
1983	892	491	418	1,838	3,104
1984	1,080	720	125	1,920	2,898
1985	1,367	1,055	68	2,012	3,017

1 Includes other food and bait herring products.

C. HALIBUT

The halibut catch originating in Canadian waters and delivered to British Columbia ports increased by 19 percent in 1985 from 3,110 tonnes to 3,687 tonnes. The increase in landed value was quite dramatic, rising from $7.2 million to $10.7 million, an increase of 49 percent. In addition to these landings, 1,016 tonnes of halibut valued at $3.1 million was caught in Canadian waters and delivered by Canadian fishermen to U.S. ports. This compares to 923 tonnes, worth approximately $2.2 million, delivered to U.S. ports in the preceding year. The total catch by British Columbia fishermen was 4,703 tonnes, valued at $13.8 million. The overall landed quantity increased by 17 percent, while the total landed value increased by 46 percent. The larger catch reflects the continued strengthening of Pacific halibut stocks, which led the International Pacific Halibut Commission to increase the catch limit in 1985. The increased landed value reflects a strengthening in the landed price paid to fishermen since last year.

The total wholesale value of halibut processed in British Columbia was $15.7 million in 1985, an increase of 35 percent over 1984. Frozen dressed halibut was again the major product marketed with a wholesale value of $9.0 million, accounting for 57 percent of the total wholesale value. Fresh dressed halibut, with a value of $6 million, increased its share of the halibut production from 29 percent in 1984 to 38 percent. Halibut fillets, steaks and "other" products were also processed. Including halibut landed by B.C. fishermen and delivered to U.S. ports, the total 1985 wholesale value was up by 36 percent from $13.8 million in 1984 to $18.8 million.

TABLE 24 - LANDINGS AND WHOLESALE VALUE OF HALIBUT IN B.C.[1]

1974 - 1985

	TOTAL LANDINGS (t)	LANDED VALUE ($'000)	AVG.LANDED PRICE ($)/KG	WHOLESALE VALUE ($'000)
1974	2,948	4,746	1.61	6,302[2]
1975	3,538	7,055	1.99	9,803[2]
1976	4,318	11,974	2.77	15,347[2]
1977	2,818	8,278	2.94	9,756
1978	2,294	10,001	4.36	12,827
1979	2,410	14,004	5.81	17,692
1980	2,668	7,341	2.75	9,962
1981	2,233	6,592	2.95	10,548
1982	1,690	4,715	2.79	5,488
1983	1,865	6,381	3.42	9,268
1984	3,110	7,222	2.32	11,640
1985	3,687	10,704	2.90	15,723

1 Not including Canadian landings of halibut in Alaska and Washington.
2 Includes the value of specialty items such as fish and chips, portions, fish sticks, etc.

D. GROUNDFISH

Domestic groundfish landings continued to increase in 1985, from 37,974 tonnes to 45,117 tonnes, a rise of 19 percent. The landed value increased by 40 percent from $21.4 million to $30 million. Specifically, the landed values of most groundfish showed modest increases with sablefish, rockfish, lingcod, and dogfish registering the largest. The only species exhibiting decreases were flounder, Pacific cod, Pacific ocean perch and soles. Included in this year's landings under "other groundfish" are idiotfish, shark and some non-food fish.

The total wholesale value of groundfish production increased by 29 percent over the 1984 value of $47.1 million, to $60.7 million. Rockfish continued to display a dramatic increase in wholesale value, rising from $14.7 million in 1984 to $18.5 million, an increase of 26 percent. Rockfish accounts for 30 percent of the total groundfish wholesale value. The wholesale value of sablefish also continued its upward trend, increasing from $8.8 million in 1984 to $14.9 million. The wholesale values of all of the other species of groundfish except Pacific cod and flounder, increased slightly. Dogfish and sablefish displayed significant jumps in wholesale value over last year at 111 and 69 percent respectively. It should be noted that a small amount of processed product was derived from imported groundfish.

TABLE 25 - COMPARATIVE WHOLESALE VALUES OF MAJOR GROUNDFISH SPECIES

1983 - 1985

SPECIES	1983 ($'000)	1984 ($'000)	1985 ($'000)
Sole	4,093	4,913	5,189
Rockfish[1]	11,828	14,663	18,501
Pacific Cod	7,452	7,038	3,590
Ling Cod	3,814	3,931	8,853
Sablefish	7,447	8,829	14,889
Flounder	58	74	73
Skate	163	120	131
Pollock	2,372	1,485	2,023
Turbot	1,124	1,246	1,526
Hake[2]	400	649	837
Dogfish	836	858	1,809
Other Groundfish[3]	2,572	3,247	3,311
TOTAL	42,159	47,053	60,732

1 Includes Pacific ocean perch, red snapper and other rockfish.
2 Excludes over-the-side sales to foreign vessels in co-operative fishing arrangements.
3 Includes other groundfish, portions, sticks and specialties, and groundfish meal, oil and solubles.

Domestic hake landings do not include cooperative fishing arrangements with foreign nations. In 1985, 13,306 tonnes worth approximately $2.2 million were purchased by Poland from Canadian fishermen. The overall drop in landings from 1984 reflects the fact the Soviet Union did not participate for the first time in seven years. Since the initiation of over- the-side sales of hake to foreign nations, 1985 marks the first year in which both the landings and landed values decreased.

TABLE 26 - OVER-THE-SIDE SALES OF PACIFIC HAKE TO FOREIGN NATIONS BY YEAR[1]

1978 - 1985

	POLAND		SOVIET UNION		GREECE		TOTAL	
	Tonnes	$'000	Tonnes	$'000	Tonnes	$'000	Tonnes	$'000
1978	1,814	240	-	-	-	-	1,814	240
1979	3,102	445	1,131	162	-	-	4,233	607
1980	4,560	739	4,300	614	3,355	609	12,215	1,962
1981	4,998	826	7,232	1,190	4,929	894	17,159	2,910
1982	10,279	1,714	9,397	1,550	-	-	19,676	3,264
1983	13,465	2,270	14,192	2,363	-	-	27,657	4,633
1984	9,214	1,609	19,692	3,044	-	-	28,906	4,653
1985	13,306	2,248	-	-	-	-	13,306	2,248

[1] Does not include domestic hake catch or national allocations to the Soviet Union, Poland and Japan.

E. SHELLFISH

Shellfish landings increased from 13,046 tonnes in 1984 to 16,384 tonnes. This 26 percent increase reflects the overall trend of increased landings for most shellfish species. The only shellfish species which showed a decrease in reported landings in 1985 was abalone. The total landed value was also up significantly, from $18.0 million to $21.5 million, an increase of 19 percent. The landed values for all individual species followed the same trend as their landings, i.e. all showed increases except abalone.

The total wholesale value of shellfish production increased by 7 percent from $26.0 million to $27.9 million in 1985. Clams, including geoducks, accounted for 34 percent, crab 21 percent, shrimp and prawns 19 percent, oysters 11 percent and sea urchins 11 percent. Abalone, mussels, octopus, scallops, sea cucumbers, squid and other shellfish accounted for the remaining 4 percent. The recorded wholesale value of abalone, clams, geoducks and prawns were the only products to show decreases from their 1984 levels.

TABLE 27 - COMPARATIVE WHOLESALE VALUES OF MAJOR SHELLFISH SPECIES

1983 - 1985

SPECIES	1983 ($'000)	1984 ($'000)	1985 ($'000)
Abalone	590	560	480
Clams[1]	2,686	5,010	4,859
Geoducks	4,202	5,175	4,743
Crabs	3,941	5,639	5,942
Octopus	97	110	121
Oysters	1,599	2,483	2,966
Shrimp	1,308	2,173	2,555
Prawns	2,270	2,886	2,880
Squid	13	25	120
Mussels	4	3	-
Scallops	23	114	128
Sea Urchins	935	1,774	2,934
Other	183[2]	33[3]	151[3]
TOTAL	17,851	25,985	27,879

1 Includes horse clams.
2 Other shellfish n.e.s.
3 Includes sea cucumbers and other shellfish n.e.s.

F. MARICULTURE PRODUCTION

1. OYSTERS

The Provincial production of Pacific oysters (Crassostrea gigas) continued to increase in 1985 to 3,420 tonnes, an 18 percent increase over the 2,897 tonnes produced in 1984. Higher prices for both shucked and half-shell products increased the landed value by 24% in 1985, to $2.6 million.

Half-shell production increased dramatically for the fifth consecutive year, pushing the total to 269,000 dozen, an increase of 56 percent from 1984's production of 172,000 dozen. A portion of 1985's increased half-shell production can be attributed to the development of more intertidal ground for growth of half-shell oysters.

TABLE 28 - BRITISH COLUMBIA OYSTER PRODUCTION - 1974 - 1985

	Production[1] (Tonnes)	Landed Value ($'000)
1974	3,930	880
1975	3,246	883
1976	3,245	887
1977	2,998	981
1978	2,793	1,021
1979	2,231	893
1980	1,922	1,134
1981[2]	1,415	1,030
1982[2]	1,579	981
1983[2]	2,453	1,554
1984[2]	2,897	2,109
1985[2]	3,420	2,613

1 1974-1980 production data was provided by the Department of Fisheries Oceans and 1981 - 1985 data was provided by the Shellfish Management Development Unit, Marine Resources Section.

2 Includes a small amount of wild oyster harvest from picking permits.

2. SALMON

The salmon farming industry continued a rapid expansion through 1985. In addition to the 36 farms in operation, 128 applications were received by the Ministry of Environment, Fisheries Branch. There has been an increase in the number of applicants planning to culture rainbow trout and Atlantic salmon, however, the two most favoured species for culture in British Columbia are still coho and chinook. Coho is reputed to be "easier" to raise than chinook, but chinook is expected to demand a higher price.

In 1985 12 companies reported production totalling 120 tonnes worth $820 thousand. This represents a 12 percent increase in quantity and a 17 percent rise in value from the 1984 production of 107 tonnes worth $702 thousand. Production is expected to grow significantly in the future as more farms begin to market their fish. The industry is increasingly oriented toward producing large (2 to 5 kg) fish, which requires a grow-out period of from 2 to 4 years. Hence, fish that smolted in 1985 are not yet of harvestable size. Marketing of the 1985 coho smolts will largely occur in 1986. Although some of the 1985 year class of chinook smolts will be marketed in 1986, the bulk will be held over until 1987 and 1988.

TABLE 29 - BRITISH COLUMBIA SALMON MARICULTURE PRODUCTION - 1979 - 1985[1]

	COHO		CHINOOK		TOTAL PRODUCTION	
	Quantity (Tonnes)	Value ($'000)	Quantity (Tonnes)	Value ($'000)	Quantity (Tonnes)	Value ($'000)
1979	41	157	-	-	41	157
1980	157	898	-	-	157	898
1981	176	985	-	-	176	985
1982	230	908	43	228	273	1,136
1983	73	350	55	358	128	708
1984	64[2]	306	43	396	107	702
1985	66[2]	395	54	425	120	820

1 Source: British Columbia Annual Fisheries Production Statistics and British Columbia Commercial Fish Farm Statistics.

2 Includes an unspecified amount of marine pen-reared rainbow trout.

G) MAJOR SPECIES BY PRODUCT TYPE

TABLE 30 - LANDINGS AND PRODUCTS PROCESSED IN B.C. - 1985[1]

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
ABALONE			
Landed	42	442	10.46
Processed:			
In Shell, Fresh or Frozen	32	390	12.08
Abalone Products[3]	-	90	-
Total Wholesale Value	-	480	-
CLAMS			
Butter Clams Landed[4]	-	-	-
Processed:			
Fresh or Frozen	88	51	0.58
Meat, Fresh or Frozen	26	99	3.82
Butter Clam Products[5]	-	1	-
Total Wholesale Value	-	151	-
Geoduck Clams Landed	5,167	4,605	0.89
Processed:			
Live	529	903	1.71
Neck Meat	548	3,537	6.45
Body Meat	287	293	1.02
Other[6]	-	10	-
Total Wholesale Value	-	4,743	-
Littleneck Clams Landed[4]	-	-	-
Processed:			
Fresh or Frozen	1,962	3,996	2.04
Total Wholesale Value	-	3,996	-
Other Clams Landed[7]	2,932	3,294	1.12
Processed:			
Fresh or Frozen	166	386	2.32
Other[8]	-	326	-
Total Wholesale Value	-	712	-
CRABS			
Landed	1,165	4,719	4.05
Processed:			
In Shell, Fresh	757	4,270	5.64
In Shell, Frozen	26	157	5.99
Meat, Fresh	34	827	24.35
Meat, Frozen	14	356	25.14
Cooked	41	258	6.29
Other[9]	-	74	-
Total Wholesale Value	-	5,942	-

TABLE 30 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
DOGFISH			
Landed	2,679	715	0.27
Processed:			
Fresh Round	1,320	265	0.20
Frozen	138	159	1.15
Flaps	123	348	2.84
Backs	522	638	1.22
Fins & Tails	58	332	5.76
Other[10]	-	67	-
Total Wholesale Value	-	1,809	-
EULACHONS			
Landed	29	40	1.38
Processed:			
Fresh	27	40	1.47
Other[11]	-	1	-
Total Wholesale Value	-	41	-
FLOUNDER			
Landed	66	30	0.46
Processed:			
Fresh Round	4	4	0.96
Fillets, Fresh	5	25	4.68
Fillets, Frozen	11	44	4.05
Total Wholesale Value	-	73	-
PACIFIC COD			
Landed	2,345	1,229	0.52
Processed:			
Fresh Round	145	166	1.14
Fresh Dressed	7	8	1.23
Fillets, Fresh	394	1,375	3.49
Fillets, Frozen	166	727	4.38
Other[13]	-	1,314	-
Total Wholesale Value	-	3,590	-
HAKE			
Landed	6,002	745	0.12
Processed:			
Fresh Round	6,077	735	0.12
Other[14]	-	102	-
Total Wholesale Value	-	837	-
HALIBUT			
Landed (B.C. Ports)	3,687	10,704	2.90
Processed:			
Fresh Dressed	1,652	5,958	3.61
Frozen Dressed	2,026	9,003	4.44
Fillets, Frozen	92	607	6.61
Steaks, Frozen	12	107	9.12
Other[15]	-	48	-
Total Wholesale Value	-	15,723	-

TABLE 30 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
HERRING			
Landed[16]	25,955	63,105	2.43
Processed:			
Fresh	60	27	0.45
Bait, Fresh or Frozen	937	2,012	2.15
Frozen for Food	80	68	0.85
Body and Offal Oil	452	242	0.54
Body and Offal Meal	4,551	2,124	0.47
Roe[17]	3,599	91,792	25.51
Spawn on Kelp	188	5,699	30.24
Other[18]	-	1,168	-
Total Wholesale Value	-	103,132	-
LING COD			
Landed[12]	5,688	3,437	0.60
Processed:			
Fresh Round	337	313	0.93
Fresh Dressed	211	399	1.89
Frozen Dressed	333	619	1.86
Fillets, Fresh	582	1,945	3.34
Fillets, Frozen	523	1,896	3.62
Surimi	33	217	5.52
Other[19]	-	3,464	-
Total Wholesale Value	-	8,853	-
OCTOPUS			
Landed	34	82	2.41
Processed:			
Fresh	5	27	5.27
Frozen	7	25	3.83
Bait	20	69	3.48
Total Wholesale Value	-	121	-
OYSTERS			
Landed	3,420	2,613	0.76
Processed:			
In Shell	6	6	1.07
Half Shell (dozens)	268,728	898	3.34
Meat, Fresh, 8 oz.	57	442	7.82
Meat, Fresh, 16 oz.	12	99	8.42
Meat, Fresh, 32 oz.	217	1,514	6.98
Other[20]	-	7	-
Total Wholesale Value	-	2,966	-

TABLE 30 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
PACIFIC OCEAN PERCH			
Landed	6,341	2,971	0.47
Processed:			
Fresh Round	1,147	782	0.68
Fresh Dressed	1	1	1.64
Frozen Dressed	451	1,058	2.34
Fillets, Fresh	675	2,552	3.78
Fillets, Frozen	809	2,968	3.67
Total Wholesale Value	-	7,361	-
POLLOCK			
Landed	1,689	358	0.21
Processed:			
Fresh Round	298	50	0.17
Fillets, Fresh	122	355	2.90
Fillets, Frozen	259	865	3.34
Other[21]	-	753	-
Total Wholesale Value	-	2,023	-
PRAWNS			
Landed	514	3,379	6.57
Processed:			
Fresh	183	1,327	7.24
Frozen	94	899	9.58
Tails, Frozen, Cooked	42	589	13.90
Other[22]	-	65	-
Total Wholesale Value	-	2,880	-
RED SNAPPER			
Landed[23]	-	-	-
Processed:			
Fresh Round	198	404	2.04
Fresh Dressed	33	53	1.57
Frozen Dressed	180	164	2.02
Fillets, Fresh	296	1,104	3.72
Fillets, Frozen	32	110	3.43
Other[24]	-	3	-
Total Wholesale Value	-	1,838	-
ROCKFISH			
Landed	11,554	6,368	0.55
Processed:			
Fresh Round	2,386	2,539	1.06
Fresh Dressed	5	8	1.59
Frozen Dressed	327	924	2.83
Fillets, Fresh	1,094	3,753	3.43
Fillets, Frozen	603	2,059	3.42
Other[25]	-	19	-
Total Wholesale Value	-	9,302	-

TABLE 30 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
SABLEFISH			
Landed[12]	4,263	12,082	2.83
Processed:			
Fresh Round	57	112	1.96
Fresh Dressed	30	107	3.53
Frozen Dressed, Japanese Cut	2,647	13,661	5.16
Frozen Dressed, Western Cut	110	495	4.50
Smoked, Dressed	51	385	7.49
Smoked Fillets	15	129	8.85
Total Wholesale Value	-	14,889	-
SALMON			
Landed[26]	104,024	246,696	2.37
Processed:			
Fresh Round	101	273	2.70
Fresh Dressed	2,679	13,864	5.18
Frozen Dressed	35,481	204,721	5.77
Frozen Fillets & Steaks	260	1,926	7.41
Salted	790	6,625	8.39
Smoked	747	11,547	15.46
Canned[27] (48 lb. cases)	1,900,479	258,646	136.10
Roe[28]	2,102	12,019	5.72
Other Specialty Products	-	385	-
Other[29]	-	2,237	-
Total Wholesale Value	-	512,243	-
SCALLOPS			
Landed	37	95	2.49
Processed:			
In shell, Fresh or Frozen	31	118	3.85
Other[30]	-	10	-
Total Wholesale Value	-	128	-
SEA URCHINS			
Landed	1,816	764	0.42
Processed:			
Roe in trays	137	2,878	21.02
Bulk Roe	14	48	3.51
Other[31]	-	8	-
Total Wholesale Value	-	2,934	-
SEA CUCUMBERS			
Landed	346	94	0.27
Processed:			
Meat	22	151	6.76
Total Wholesale Value	-	151	-

TABLE 30 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
SHRIMP			
Landed	678	1,180	1.74
Processed:[32]			
Fresh	74	282	3.80
Frozen	2	6	2.87
Shrimp Meat, Fresh	138	1,763	12.80
Shrimp Meat, Frozen	28	299	10.80
Other[33]	-	205	-
Total Wholesale Value	-	2,555	-
SKATE			
Landed	370	56	0.15
Processed:			
Fresh	3	5	1.40
Wings	65	125	1.91
Other[34]	-	1	-
Total Wholesale Value	-	131	-
SMELT			
Landed	1	2	2.69
Processed:			
Fresh or Frozen	*	1	-
Total Wholesale Value	-	1	-
SOLE			
Dover Sole Landed[35]			
Processed:			
Fresh Round	8	5	0.58
Fillets, Fresh	8	38	4.60
Other[36]	-	1	-
Total Wholesale Value	-	44	-
English Sole Landed[35]			
Processed:			
Fresh Round	2	2	0.92
Fillets, Fresh	51	268	5.31
Other[37]	-	3	-
Total Wholesale Value	-	273	-
Petrale Sole Landed[35]			
Processed:			
Fresh Round	22	49	2.23
Frozen Round	40	106	2.66
Fillets, Fresh	52	368	7.14
Fillets, Frozen	25	177	7.23
Other[38]	-	3	-
Total Wholesale Value	-	703	-

TABLE 30 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
Rock Sole Landed[35]	-	-	-
Processed:			
Fresh Round	25	87	3.51
Frozen Round	3	5	1.67
Fillets, Fresh	157	852	5.41
Fillets, Frozen	219	1,232	5.62
Other[39]	-	49	-
Total Wholesale Value	-	2,225	-
Other Sole Landed	2,782	1,686	0.61
Processed:			
Fresh Round	102	201	1.97
Frozen Round	178	344	1.93
Fillets, Fresh	130	734	5.64
Fillets, Frozen	82	512	6.28
Other[40]	-	153	-
Total Wholesale Value	-	1,944	-
SQUID			
Landed	111	184	1.65
Processed:			
Fresh	10	17	1.80
Fresh and Frozen Bait	72	103	1.43
Total Wholesale Value	-	120	-
STURGEON			
Landed	8	16	2.05
Processed:			
Fresh	4	14	4.03
Other[41]	-	5	-
Total Wholesale Value	-	19	-
TUNA			
Landed (B.C. Ports)[42]	1	1	2.76
Processed:			
Frozen	46	145	3.14
Other[43]	-	263	-
Total Wholesale Value	-	408	-
TURBOT			
Landed	765	164	0.21
Processed:			
Fresh Round	4	1	0.23
Fillets, Fresh	44	113	2.58
Fillets, Frozen	170	489	2.88
Other[44]	-	923	-
Total Wholesale Value	-	1,526	-
MISCELLANEOUS FISH			
Landed[45]	745	330	-
Processed:			
Other Products[46]	-	3,312	-
Total Wholesale Value	-	3,312	-

TABLE 30 - CONT'D - FOOTNOTES

1 Any discrepancy in value figures is due to rounding.
2 Average price is based on totals prior to rounding.
3 Includes fresh meat and other abalone products.
4 Included in "other clams".
5 Includes canned nectar and other butter clam products.
6 Includes other geoduck products.
7 Includes horse clams.
8 Includes fresh or frozen clam meat, bait, live horse clams, horse clam neckmeat and other products.
9 Includes canned and other crab products.
10 Includes other dogfish products.
11 Includes frozen and other eulachon products.
12 Quantity reported in round weight.
13 Includes frozen dressed, blocks and other Pacific cod products, derived from imported Pacific cod.
14 Includes frozen hake, fillets and other products.
15 Includes fresh fillets, frozen fletches, blocks and other halibut products.
16 Includes herring spawn on kelp.
17 Includes mature and immature roe.
18 Includes kippered herring snacks, pickled, dry salted, carcasses for export, fillets and other herring products.
19 Includes frozen lingcod steaks and other products.
20 Includes meat, fresh 12 oz., canned and other oyster products.
21 Includes blocks, roe, surimi and other pollock products.
22 Includes prawns whole frozen cooked, prawn meat frozen cooked and other products.
23 Included in rockfish.
24 Includes other red snapper products.
25 Includes blocks and other rockfish products.
26 Includes salmon roe.
27 Includes specialty packs.
28 Includes "No. 1 Grade" and "other grades."
29 Includes offal, offal meal, oil, heads, bait, milts, heads, bait, milts and other salmon products.
30 Includes other scallop products.
31 Includes other sea urchin products.
32 Includes shrimp products derived from imported shrimp.
33 Includes other shrimp products.
34 Includes frozen skate and other products.
35 Included in "other sole."
36 Includes frozen dover sole fillets and other products.
37 Includes frozen English sole fillets and fresh/frozen dressed products.
38 Includes fresh/frozen dressed and other petrale sole products.
39 Includes fresh/frozen dressed rock sole, blocks and other products.
40 Includes fresh/frozen dressed and other sole products.
41 Includes frozen and other sturgeon products.
42 Does not include 56 tonnes worth $148,403 caught in U.S. waters and landed in Canada by Canadian fishermen.
43 Includes canned and other tuna products. Also includes tuna products derived from imported tuna.
44 Includes frozen turbot, blocks and other products, derived from imported turbot.
45 Includes non food fish, mussels, snails, idiotfish, wolf eel, plankton, shark, shad and anchovies.
46 Includes "other groundfish," "portions, sticks and specialty" products, "other shellfish," mussels, fish meal n.e.s., fish oil n.e.s., solubles n.e.s., and kombu.

III. LICENCING OF THE B.C. FISHING AND FISH PROCESSING SECTORS - 1985

The total number of personal commercial fishing licences issued by the Department of Fisheries and Oceans in 1985 increased by 6 percent from 14,647 in 1984 to 15,567. Due to the fact that 1985 was the fourth year in which a 5 year licence was issued, the overall change in numbers of licences issued may not actually reflect a change in the number of people licenced to fish - i.e. holders of 5 year licences only renew every five years. A total of 446 5 year licences, as well as 15,121 traditional 1 year licences were issued compared to 487 and 14,160 issued in 1984 respectively. It should be noted that a total of 3,459 5 year licences were valid during 1985.

In overall terms, the number of licences issued by the Department of Fisheries and Oceans for commercial fisheries remained relatively constant for the fifth consecutive year. All categories of limited entry licences displayed only minor fluctuations but there were some significant changes in the number of unlimited entry (Z) fisheries licences issued. Most categories showed marginal decreases since 1984, but both squid and prawn dropped by over 22 percent.

The number of fish processing licences issued by the Ministry of Environment increased by 3 percent in 1985, from 186 to 191. The number of roe herring processing licences issued declined, while the number of salmon, other finfish and invertebrate rose slightly. A total of 2 marine plant processing licences were issued in 1985.

For the fourth consecutive year the number of fish buying licences issued to persons and/or companies decreased in all except the invertebrate category. A total of 367 were issued in 1985, compared to 417 in 1984, a drop of 12 percent. Specifically, the number of fish buying decals issued were: 273 for salmon, 117 for roe herring, 98 for other finfish and 82 for invertebrates. A total of 240 fisherman's vending licences were also issued in 1985; as compared to 272 in 1984. Finally, 199 oyster picking permits and 27 marine plant harvesting permits were issued by the Ministry of Environment.

TABLE 31 - THE NUMBER OF PERSONAL COMMERCIAL FISHING LICENCES ISSUED BY THE DEPARTMENT OF FISHERIES AND OCEANS: BY DISTRICT 1983-85[1]

	1983		1984		1985	
	1 Year	5 Year[2]	1 Year	5 Year[2]	1 Year	5 Year[2]
KAMLOOPS	7		7		6	
NEW WESTMINSTER	2,341	126	2,161	154	2,243	126
NANAIMO	3,279	99	3,334	59	3,551	60
PORT ALBERNI	1,351		1,340		1,330	1
CAMPBELL RIVER	2,129		2,097		2,209	11
KITIMAT	391		314		n/a[3]	n/a[3]
PRINCE RUPERT	1,349	73	1,321	55	2,350[3]	68[3]
QUEEN CHARLOTTE CITY	282		322		n/a[3]	n/a[3]
VICTORIA	1,601		1,455		1,486	4
VANCOUVER	1,915	451	1,782	219	1,881	176
WHITEHORSE	45		27		65	
TOTAL	14,690	749	14,160	487	15,121	446

1 Information provided by the Licencing Section, Department of Fisheries and Oceans.

2 A total of 2609 5 year licences were valid during 1983, 3,027 in 1984 and 3,459 during 1985.

3 Prince Rupert totals include licences for Kitimat and Queen Charlotte City districts.

TABLE 32 - THE NUMBER OF LICENCES ISSUED FOR COMMERCIAL FISHERIES BY THE DEPARTMENT OF FISHERIES AND OCEANS: BY FISHERY AND LICENCE CATEGORY 1983 - 1985[1]

FISHERY	LICENCE CATEGORY	1983	1984	1985
Salmon				
General	A	3,782	3,679	3,672
Seine	A	550	551	550
Temporary	B	155	10	7
N.N.F.C.[2]	N	139	251	253
Salmon Subtotal		4,626	4,491	4,482
Roe Herring				
Gillnet	H	1,325	1,326	1,327
Seine	H	252	251	252
Roe Herring Subtotal		1,577	1,577	1,579
Spawn on Kelp	J	28	28	28
Halibut	L	429	433	434
Groundfish Trawl	T	139	141	142
Shrimp Trawl	S	243	242	247
Sablefish	K	44	46	47
Abalone	E	26	26	26
Geoduck	G	46	54	55
Selected Species	C	1,010	1,111	1,102

1 Information provided by the Licencing Section, Department of Fisheries and Oceans.

2 Northern Native Fishing Corporation exclusive licences.

TABLE 33 - THE NUMBER OF LICENCES ISSUED FOR COMMERCIAL FISHERIES BY THE DEPARTMENT OF FISHERIES AND OCEANS:

SPECIAL FISHERIES (Z) - UNLIMITED ENTRY - 1983 -1985[1]

		1983	1984	1985
B. Unlimited Licences				
Packing	D	227	211	198
Processor	P	3	4	5
Special Fisheries - Fishing with a Vessel Z				
Clams		1	1	1
Weathervane Scallops		18	6	8
Red Sea Urchin		64	85	86
Sea Cucumber		44	29	40
Squid Species		165	99	76
Euphausiid		7	8	5
Copepod		0	0	0
Prawn		568	693	544
Pink or Spiny Scallop		11	17	22
Octopus		131	84	73
Anchovy		54	20	14
Surf and Pile Perch		14	35	21
Special Fisheries - Fishing Without a Vessel Z				
Mussel		19	12	5
Welk		0	0	0
Winkles		0	1	0
Top Snail		0	1	0
Limpet		0	1	0
Goose Barnacle		2	18	9
Octopus		20	13	15
Smelt		17	25	30
Eulachon		6	3	1

1 Information provided by the Licencing Section, Department of Fisheries and Oceans.

TABLE 34 - THE NUMBER OF FISH PROCESSING, FISH BUYING AND FISHERMAN'S VENDING LICENCES ISSUED BY THE MINISTRY OF ENVIRONMENT: BY LICENCE TYPE - 1983 - 1985[1]

	1983	1984	1985
Processing Licences			
Commercial Salmon Cannery	18	13	16
Sport Caught Salmon Cannery	1[2]	2[2]	-
Salmon	135	90	89
Roe Herring	36	38	33
Fin Fish	79	76	83
Invertebrates	73	87	89
Cold Storage:			
a. over 80 m^3	61	53	57
b. under 80 m^3	37	44	45
Marine Plants	1	0	2
Buyer Licence Decals Issued			
Salmon	320	281	273
Roe Herring	236	178	117
Fin Fish	110	96	98
Invertebrates	80	67	82
Fisherman's Vending Licences	347	272	240
Oyster Picking Permits	133	127	197
Marine Plant Harvesting Licences	21	27	27

1 Covers the fiscal year period from April 1 to March 31.
2 Three and four companies were licenced to can sport caught fish in 1983 and 1984 respectively; in each year, two were already covered by commercial salmon cannery licences while the others were exclusively licenced as sport caught canneries.

TABLE 35 - NUMBER OF BRITISH COLUMBIA FISH PROCESSING FACILITIES BY GEOGRAPHIC REGION[1]
1984/85 - 1985/86

Region	1984/85					1985/86				
	Only Canning	Only Cold Storage	Canning and Cold Storage	Plant Only	Total Plants	Only Canning	Only Cold Storage	Canning and Cold Storage	Plant Only	Total Plants
Lower Mainland	3	44	5	30	82	2	47	5	25	79
Southern Vancouver Island	-	26	3	30	59	1	28	2	31	62
West Coast Vancouver Island	-	4	-	2	6	-	4	-	2	6
Northern Vancouver Island	1	-	-	2	3	1	-	-	2	3
Sunshine Coast	-	2	-	8	10	-	3	-	6	9
Central Coast	-	2	-	-	2	-	1	-	1	2
North Coast/Prince Rupert	-	3	3	2	8	-	5	4	1	10
Queen Charlotte Islands	-	2	-	-	2	-	2	-	-	2
Interior of B.C.	-	2	-	-	2	-	1	-	-	1
TOTAL	4	85	11	74	174	4	91	11	68	174

1 Does not include vessels that were licenced to process or companies that leased space in licenced facilities. Sports fish canning facilties are included.

TABLE 36 - CANADIAN CONSUMER PRICE INDEX FOR ALL ITEMS AND SELECTED FOOD ITEMS FOR 1974 - 1985

1981 = 100

YEAR	ALL ITEMS	FISH	POULTRY	MEAT
1974	52.8	48.3	56.3	51.5
1975	58.5	50.0	61.2	53.7
1976	62.9	55.0	63.1	52.9
1977	67.9	60.7	63.3	54.2
1978	73.9	69.2	72.7	72.1
1979	80.7	76.9	82.4	87.8
1980	88.9	87.4	86.1	93.2
1981	100.0	100.0	100.0	100.0
1982	110.8	109.5	104.4	105.0
1983	117.2	115.0	107.8	105.8
1984	122.3	120.6	114.6	110.8
1985	127.2	125.7	113.0	113.8

Source: - Canada, Statistics Canada, Consumer Prices and Price Indexes, October - December, 1984. Ottawa: Supply and Services Canada, March 1985.
- Table 8: Consumer Price Index for Canada, All Items, 1973-1984, p. 24.
- Table 9: Consumer Price Index for Canada - Main Components, Sub-groups and Selected Items, pp. 25-26.
- Personal Communication, Statistics Canada, July 12, 1985.
- Personal Communication, Statistics Canada, Sept. 11, 1986.

IV. RECOVERY RATES FOR SALMON, GROUNDFISH AND SHELLFISH

A survey was conducted in 1985 to collect recovery rates for all processed fish products. Survey forms were sent to all 168 processing companies in British Columbia of which 69 percent responded. Where insufficient responses were received for specific product categories, recovery rate data from agencies such as the Department of Fisheries and Oceans or the International Pacific Halibut Commission were utilized.

Processing of round finfish and shellfish to a finished product, results in a net loss of fish. The recovery rate for the product, usually expressed as a percentage, is the weight of the product divided by the initial weight of the whole fish. To convert a given product weight back to a round weight equivalent, the product weight is multiplied by an inverse conversion factor. The recovery rate for a round, live or in shell product is 100% with a conversion factor of 1.00.

For any product type, recovery rates may vary between companies. To determine a weighted industry average, all individual company recovery rates were multiplied by the product weight to derive a round weight. The total of the round weight was then divided by the total of the product weight to obtain an average recovery rate for the product.

Table 37 - RECOVERY RATES FOR SALMON - 1984

(Conversion Factor = 100%/Recovery Rate%)

		RECOVERY RATE (%)	CONVERSION FACTOR
FRESH ROUND			
All Species		100.0	1.00
FROZEN ROUND			
All Species		100.0	1.00
FRESH DRESSED, HEAD ON			
Chinook	- Red	88.5	1.13
	- Pink	87.8	1.14
	- White	86.6	1.15
Sockeye		87.3	1.15
Coho		88.5	1.13
Pink		85.1	1.18
Chum	- Silver Brite	85.4	1.17
	- Semi Brite	84.6	1.18
	- Dark	85.1	1.18
Steelhead		84.5	1.18
FRESH DRESSED, HEAD OFF			
Chinook	- Red	77.2	1.29
	- Pink	77.7	1.29
	- White	75.6	1.32
Sockeye		78.1	1.28
Coho		75.7	1.32
Pink		75.0	1.33
Chum	- Silver Brite	75.3	1.32
	- Semi Brite	73.9	1.35
	- Dark	75.1	1.33
Steelhead		76.3	1.31
FROZEN DRESSED, HEAD ON			
Chinook	- Red	85.1	1.18
	- Pink	84.0	1.19
	- White	85.0	1.18
Sockeye		88.2	1.13
Coho		87.7	1.14
Pink		86.4	1.16
Chum	- Silver Brite	84.8	1.18
	- Semi Brite	84.6	1.18
	- Dark	84.2	1.19
Steelhead		89.3	1.12

TABLE 37 - CONT'D

		RECOVERY RATE (%)	CONVERSION FACTOR
FROZEN DRESSED, HEAD OFF			
Chinook	- Red	77.1	1.30
	- Pink	77.6	1.29
	- White	77.1	1.30
Sockeye		76.9	1.30
Coho		77.0	1.30
Pink		75.5	1.32
Chum	- Silver Brite	72.3	1.38
	- Semi Brite	71.8	1.39
	- Dark	71.2	1.40
Steelhead		78.9	1.27
FROZEN STEAKS AND FILLETS			
All species - see values for Frozen Dressed, Head Off.			
MILD CURED			
Sockeye		79.2	1.26
All other species		74.1	1.35
SMOKED			
Chinook	- Red	55.8	1.79
	- Pink	55.1	1.81
	- White	56.4	1.77
Sockeye		60.1	1.66
Coho		51.1	1.96
Pink		57.4	1.74
Chum	- Silver Brite	55.9	1.79
	- Semi Brite	52.4	1.91
	- Dark	52.4	1.91
Steelhead		56.0	1.78
OTHER SPECIALTY PRODUCTS			
All species - recovery rates variable depending on product			

TABLE 37 - CONT'D

		RECOVERY RATE (%)	CONVERSION FACTOR
OWN CANNED PACK (lb. round/ 48 lb. case)			
Chinook	- Red	-	71.70
	- Pink	-	77.20
	- White	-	77.50
Sockeye		-	68.30
Coho		-	73.80
Pink		-	77.40
Chum	- Silver Brite	-	75.80
	- Semi Brite	-	77.00
	- Dark	-	76.80
Steelhead		-	77.40
CUSTOM CANNED PACK			
All species - see values for Own Canned Pack.			
SPECIALTY CANNED PACK			
All species - see values for Own Canned Pack.			
SALMON ROE			
All species		-	-
MEAL (LB. MEAL TO LB. FISH)			
All species		15.0	6.67[1,3]
OIL (LB. OIL TO LB. FISH)			
All species		3.2	31.20[1,2,3]

1 Includes an unspecified amount of groundfish.

2 Includes a conversion factor of 7.5 lbs. oil/gal. oil.

3 This conversion factor does not yield a round weight equivalent because the product is not processed from a round fish.

TABLE 38 - RECOVERY RATES FOR GROUNDFISH AND OTHER FISH[1] - 1984

(Conversion Factor = 100%/Recovery Rate%)

	RECOVERY RATE (%)	CONVERSION FACTOR
DOGFISH		
Dressed Head Off	45.8	2.18
Flaps	6.9	14.05
Backs	31.0	3.22
Fins & Tails	2.1	47.60
FLOUNDER		
Dressed Head Off	80.0	1.25
Fillets, Fresh	24.9	4.02
Fillets, Frozen	21.8	4.59
PACIFIC COD		
Dressed Head On	83.3	1.20
Dressed Head Off	71.9	1.39
Fillets, Fresh	27.3	3.66
Fillets, Frozen	28.6	3.50
Steaks, Frozen	71.9	1.39
HAKE		
Dressed Head Off	55.9	1.79
Fillets, Skinless	31.9	3.13
Fillets, Boneless	27.0	3.70
HALIBUT		
Dressed Head Off	75.2	1.33
Fillets	42.2	2.37
Fletches	42.2	2.37
Steaks	52.8	1.89
HERRING		
Bait	100.0	1.00
Fillets	35.0	2.86
Kippered Snacks	35.0	2.86
Kippers	35.0	2.86
Pickled	35.0	2.86
Roe (mature)	13.7	7.30
Meal (lbs. meal to lbs. fish)	18.0	5.55[2,4]
Oil (lbs. oil to lbs. fish)	2.1	47.66[2,3,4]

TABLE 38 - CONT'D

	RECOVERY RATE (%)	CONVERSION FACTOR
LING COD		
Dressed Head Off, Fresh	67.0	1.49
Dressed Head Off, Frozen	72.8	1.37
Fillets, Fresh	34.1	2.93
Fillets, Frozen	31.4	3.18
Steaks, Frozen	72.8	1.37
PACIFIC OCEAN PERCH		
Dressed Head Off	64.9	1.54
Fillets, Fresh	29.4	3.40
Fillets, Frozen	30.7	3.25
POLLOCK		
Dressed Head On	88.0	1.14
Dressed Head Off	65.0	1.54
Fillets, Fresh	28.6	3.50
Fillets, Frozen	28.9	3.46
RED SNAPPER		
Dressed Head Off, Fresh	65.4	1.53
Dressed Head Off, Frozen	60.7	1.65
Fillets, Fresh	30.0	3.33
Fillets, Frozen	30.0	3.33
ROCKFISH		
Dressed Head On	85.0	1.18
Dressed Head Off	65.0	1.54
Fillets, Fresh	28.9	3.46
Fillets, Frozen	28.1	3.56
SABLEFISH		
Dressed, Western Cut	72.0	1.39
Dressed, Japanese Cut	65.0	1.54
Smoked, Dressed	46.5	2.15
Smoked, Fillets	50.1	2.00
SKATE		
Wings	45.4	2.20

TABLE 38 - CONT'D

	RECOVERY RATE (%)	CONVERSION FACTOR
SMELT		
Dressed Head On	98.0	1.02
SOLE (General)		
Dressed Head Off	80.0	1.25
DOVER SOLE		
Fillets, Fresh	27.3	3.66
Fillets, Frozen	25.5	3.92
ENGLISH SOLE		
Fillets, Fresh	27.7	3.61
Fillets, Frozen	25.3	3.95
PETRALE SOLE		
Fillets, Fresh	31.2	3.20
Fillets, Frozen	30.2	3.31
ROCK SOLE		
Fillets, Fresh	28.8	3.47
Fillets, Frozen	29.0	3.45
OTHER SOLE		
Fillets, Fresh	28.9	3.46
Fillets, Frozen	28.1	3.56
STURGEON		
Dressed Head On	75.0	1.33
TURBOT		
Dressed Head Off	80.0	1.25
Fillets, Fresh	28.6	3.50
Fillets, Frozen	27.7	3.61

TABLE 38 - CONT'D

MISCELLANEOUS FISH	RECOVERY RATE (%)	CONVERSION FACTOR
Meal (lb. meal to lb. fish)	16.6	6.02[2,4]
Oil (lb. oil to lb. fish)	4.5	22.20[2,3,4]

[1] All fresh or frozen round fish are assumed to have a recovery rate of 100% with a conversion factor of 1.00.

[2] Includes an unspecified amount of salmon.

[3] Includes a conversion factor of 7.5 lbs. oil/gal. oil.

[4] This conversion factor does not yield a round weight equivalent because the product is not processed from a round fish.

TABLE 39 - RECOVERY RATES FOR SHELLFISH[1] - 1984

(Conversion Factor = 100%/Recovery Rate%)

	RECOVERY RATE (%)	CONVERSION FACTOR
BUTTER CLAMS		
Meat	29.4	3.40
GEODUCK CLAMS		
Neck Meat	21.6	4.63
Body Meat	11.0	9.09
HORSE CLAMS		
Neck Meat	17.5	5.71
OTHER CLAMS		
Bait	100.0	1.00
Meat	29.4	3.40
Canned (48 lb. case)	-	180.00
CRABS		
Meat, Fresh	19.2	5.21
Meat, Frozen	20.8	4.81
Cooked	93.3	1.07
Canned (48 lb. case)	-	250.00
OCTOPUS		
Bait	100.0	1.00
OYSTERS (Average #/container)		
Meat (Avg. #/8 oz. cont.)	-	8.04[2]
Meat (Avg. #/16 oz. cont.)	-	14.06[2]
Meat (Avg. #/32 oz. cont.)	-	26.20[2]
PRAWNS		
Tails	50.5	1.98
Cooked, Whole	94.5	1.06
Meat	50.5	1.98
SEA CUCUMBERS		
Meat	9.4	10.60

TABLE 39 - CONT'D

	RECOVERY RATE (%)	CONVERSION FACTOR
SEA URCHINS		
Roe, in trays	6.70	14.90
Roe, in bulk	6.10	16.40
SHRIMP		
Meat, Fresh	24.7	4.05
Meat, Frozen	24.2	4.13
Canned (48 lb. case)	-	194.30
SQUID		
Bait	100.0	1.00

[1] All live or in shell shellfish are assumed to have a recovery rate of 100% with a conversion factor of 1.00.

[2] This is not a true conversion factor as it yields the average number per container which is not a conversion factor of 1.00.